Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick								
of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry								
surface (excluding cost of rough plastered surface which should be measured and paid								
glazed tiles of approved make and size including cost of materials, labour, complete as per								
Specification No.KBS 14.16, 14.17 Pg No 108,Item No14.41.2								
	Sqm	2	1.8		2.1	7.56		
	Sqm	2	1.15		2.1	4.83		
	Sqm	-1	0.75		2.1	-1.58		
							1632.00	✓
							130.56	
						10.82	**1762.56**	**19062.09**
Providing and laying integral cement based waterproofing treatment including preparation of								
required for treatment of roofs, balconies, terraces etc., consisting of following application. (a)								
grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary								
compound conforming to IS:2645 over the RCC slab after cleaning the surface before								
(b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement								
admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer								
mortar 1:5 admixed with proprietary water proofing compound to required slope and treating								
the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c)								
days of proper curing, applying a second coat of cement lurry admixed with proprietary water								
compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed								
water proofing compound and finally finishing the surface with trowel and neat cement								
making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for								
period of two weeks for curing and for final test including cost of materials, labour complete as								
	Sqm	1	6.8	3.35		22.78		
	Sqm	1	2.2	3.3		7.26		
							994.00	✓
							79.52	
						30.04	**1073.52**	**32248.54**
Fixing of door frames in an existing opening including embedding frame in floor and walls								
cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and								
granite metal painting two coats of coal tar to sides of frame,making good the damages to walls								
required and disposal of the debries with lead upto 50 m. including cost of materials, labour,								
complete as per specifications. Pg No 60,Item No9.80								
	Nos	1				1.00		
	Nos	1				1.00		
							1366.00	✓
							109.28	
						2.00	**1475.28**	**2950.56**
Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other								
sawn, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete								
frames) but including cost of materials, labour, HOM of machineries complete as per								
specifications. Specification No. KBS 9.33 Pg No 53,Item No9.11								

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Cum	1	6.60	0.125	0.1	0.08		
	Cum	1	6.6	0.125	0.1	0.08		
							87604.00	
							7008.32	
						0.17	**94612.3**	**15611.03**
Providing and fixing in position fully panelled Honne wood shutters for doors, styles and thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per panels of 25mm thick including cost of materials, labour, HOM of machineries complete as specifications. (excluding cost of fixtures) Specification No. KBS 9.34, Pg No. 53, Item No. 9.15								
	Sqm	1	1.2		2.1	2.52		
							4722.00	
							377.76	
						2.52	**5099.76**	**12851.40**
	Sqm	1	1.2		2.1	2.52		
							4722.00	
Addition rate of Rs.4.00/sqm per floor may be added for every							4.00	
							4726.00	
							378.08	
						2.52	**5104.1**	**12862.28**
Providing fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and 450 gms E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. Thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam core of 38mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements shall be provided in Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A synthetic adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforcements and the skins. The material and process for manufacturing the door shutters shall confirm to Fiber Reinforced Composites Design Centre Standards and specifications and the door shutters tested in accordance with IS:4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey polyurethane paint using high quality pigments. Excluding cost of fixtures and inclusive of supply of adhesive at the work spot. P.No.62, I.No.9.94								
	Sqm	1	0.75		2.100	1.58		
							3800.00	
							304.00	
						1.58	**4104.0**	**6463.80**
Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter and repairing including cost ofmaterials, labour, complete as per specifications. Pg no:121.Item								
	Sqm	1	6.6	0.125		0.83		
	Sqm	2	6.6	0.100		1.32		
	Sqm	1	6.6	0.125		0.83		

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Sqm	2	6.6	0.100		1.32		
							97.00	
							7.76	
						4.29	**104.76**	**449.42**
Providing and fixing in position aluminium windows and ventilators as per approved drawings including shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 0.933 kg/m, sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising inside frame section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer section, wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.25 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of brass/aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for glazing with rubber beading all aluminium sections including cutting to required length, joints mitred connecting the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, fabricated and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, including teak wood gatties including cutting masonry or concrete and making good the original surface with cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with thermosetting pure polyester grade powder of approved quality.Pg No.35 Item No.7.11.2								
Ground Floor								
	Sqm	5	1.20		1.80	10.80		
	Sqm	1	0.75		0.60	0.45		
							4435.00	
							354.8	
						11.25	**4789.80**	**53885.25**
First Floor								
	Sqm	5	1.2		1.8	10.80		
							4435.00	
Additional rate of Rs.6/sqm per floor may be added for every additional floor							6.00	
							4441.00	
							355.28	
						10.80	**4796.28**	**51799.82**
Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats or M.S. square rods, or combination of M.S. flats and square rods as per approve design, including cutting steel sections and welding the same to required pattern with a coat of red lead primer coat of materials, fixtures, labour and HOM of machinery complete as per specification No. KBS 7.12 Pg No.34 Item No.7.9								
Ground Floor								
	Kg	5			37.80	189.00		
			21kg per sqm 1.2*1.5*21=37.8					
							95.00	
							7.6	
						189.00	**102.60**	**19391.40**
First Floor								
	kg	5			37.80	189.00		
			21kg per sqm 1.2*1.5*21=37.8					

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
							95.00	
Additional rate of Rs.6/sqm per floor may be added for every additional floor							6.00	
							101.00	
Wastage 8%							8.08	
Total						**189.00**	**109.08**	**20616.12**
Providing and applying enamel metal paint two coats (excluding priming coat) over new metal/other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter including cost of materials, labour, complete as per specifications. Pg no:123.Item no:15.74								
Windows and ventilators	sqm	1	window qty+ventilator qty			22.05		
Railings/Grill Works	Sqm		window qty			22.05		
Total	Sqm	1	2.1		1.2	2.52		
Total cost							95.00	
Wastage 8%							7.60	
Total						**46.62**	**102.60**	**4783.21**
Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with vertical 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase treads using expansion bolts by drilling concrete etc., complete including cost of materials, labour, fittings/accessories and electrical charges, etc., complete as per specifications. Pg 45 Item no.7.38								
Ground Floor								
Flight One	Sqm	2	3.35		0.9	6.03		
Flight Two	Sqm	2	2.4		0.9	4.32		
Landing	Sqm	1	4		0.9	3.60		
Total Cost							6021.00	
Wastage 8%							481.68	
Total						**13.95**	**6502.68**	**90712.39**
First Floor								
Flight One	Sqm	2	3.35		0.9	6.03		
Flight Two	Sqm	2	2.4		0.9	4.32		
Landing	Sqm	1	4		0.9	3.60		
Total Cost							6021.00	
Additional rate of Rs.6/sqm per floor may be added for every							6.00	
Amount							6027.00	
Wastage 8%							482.16	
Total						**13.95**	**6509.16**	**90802.78**

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. tubular frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 6mm flat bars for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with one coat of red oxide paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for fabrication work, hire charges for welding, cutting and grinding equipment, and electricity charges, with transportation, loading and unloading charges, etc., complete as per specifiocation. P. No. 45 / I. No. 7.37								
Gate	Sqm	1	2.1		1.2	2.52		
Add Cost							3012.00	
Contingencies 8%							240.96	
Total						**2.52**	**3252.96**	**8197.46**
1.2.1 Construction of embankment with approved material Gravel/Murrum with all lifts and initial transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300.1 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction with roller to 95% of proctors density) MORTH Specification No. 305								
Bund	Cum	1	7.20	3.7	0.45	11.99		
Wings	Cum	1	7.20	2	0.45	6.48		
Add Cost							325.00	
Contingencies 8%							26.00	
Total						**18.47**	**351.00**	**6482.27**
						Total Amount		**2190328.37**
							GST Charges (12% of estimated cost)	**262839.4**
							Grand Total	**2453167.78**

The spot has been inspected and found to be necessary

The spot comes under B.B.M.P

The provisions made in the estimate are necessary and minimum.

The estimate is based on C.S.R of 2018-2019 and approved rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: CONSTRUCTION OF SAMUDAYA BHAVANA AT MARIYANNAPALYA IN WARD No.07

Est.Cost.Rs. 109472

Description of Work	Unit	No	L	B	D	QTY	Rate	Amount
Earthwork excavation for foundation of buildings, water supply, sanitary and electrical conduits either in pits or in trenches 1.5m and above in width, in hard not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. and breaking of clods complete as per specifications. Specification No. KBS 2.1(b) / 2.3.5 Pg No Item No 2.4								
Quantity	cum	1	2.3	2.3	1.90	10.05		
Basic rate							449.00	
Data weightage 8%							35.92	
Total						**10.05**	**484.92**	**4873.93**
Providing and laying in position plain cement concrete of mix 1:4:8(with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregate @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
Quantity	Cum	1	2.30	2.30	0.10	0.53		
Basic rate							5102.00	
Data weightage 8%							408.16	
Total						**0.53**	**5510.16**	**2914.87**
Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS Pg No 16, Item No 4.28								
Basic rate	Sqm	1	9.2		0.15	1.38		
Data walls	Sqm	4	2.3		1.8	16.56		

Description of Items	Unit	No	L	B	D	QTY	Rate	Amount
	Sqm	4	2		1.8	14.40		
Basic rate							258.00	
Site weightage 8%							20.64	
Total						**32.34**	**278.64**	**9011.22**
KBS 4.6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 150mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Specification No. KBS 4.6.2 page no.16								
Cover slab	Sqm	1	2.3	2.3		5.29		
Basic rate							400.00	
Site weightage 8%							32.00	
Total						**5.29**	**432.00**	**2285.28**
KBS 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns,pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14, Item No.								
Deduct								
Cover slab	Cum	1	2.30	2.30	0.15	0.79		
Deep walls	Cum	2	2.30	0.15	1.80	1.24		
	Cum	2	2.00	0.15	1.80	1.08		
Cover slab	Cum	1	2.30	2.30	0.15	0.79		
Basic rate							5812.00	

Unit	No	L	B	D	QTY	Rate	Amount
						464.96	
					3.91	**6276.96**	**24536.64**
Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured while taking out of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2							
Cum					3.91		
kg	Steel assumed 125 Kg/Cum of Concrete				488.63		
Tonne					**0.49**	70966.00	
						5677.28	
tonne					**0.49**	**76643.28**	**37449.82**
Providing 20mm square M.S footrest and fixing in manhole Nos 232.00 cover block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6Pg No. 75 item no. 11.44							
Nos	4				4.00		
						276.00	
						22.08	
					4.00	**298.08**	**1192.32**
Excavating the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No							
Cum	From Item No.1				10.05		
Cum						57	
tkm	For surface roads exluding Basic rate loading & unloading					2	
	For2Kms =2x1.28x2					5.12	
						62.12	
						4.97	
					10.05	**67.09**	**674.32**

Description of Work	Unit	No	L	B	D	QTY	Rate	Amount
Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 200gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline metal silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @0.250 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification. page no/item no 10.5.1								
For sump								
Bottom slab	Sqm	1	2.3	2.3		5.29		
Sump walls	Sqm	2	2.3		1.8	8.28		
	Sqm	2	2		1.8	7.2		
Cover slab	Sqm	1	2.3	2.3		5.29		
Basic rate							526.00	
Add overhead weightage 8%							42.08	
Total						**26.06**	**568.08**	**14804.16**
							TOTAL AMOUNT	**97742.56**
							GST Charges (12% of estimated cost)	**11,729.1**
							Grand Total	**109471.67**

CERTIFICATE:

1)The work spot has been inspected and found to be necessary

2)The work spot comes under B.B.M.P

3)The provisions made in the estimate are necessary and minimum.

4)The estimate is based on C.S.R of 2018-2019, PWD Electrical 2019-20,PRED 2019-20, BBMP approved Rate and Issused Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer,
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20/1/2020

BRUHAT BANGALORE MAHANAGARA PALIKE

CONSTRUCTION OF SAMUDAYA BHAVANA AT MARIYANNAPALYA IN WARD No.07

					Est.Cost.Rs.	121446
Description	Units	Rate(RS.)	Area Weightage 8%	Total Rate (RS.)	Quantity	Amount (RS.)
Providing and fixing white [illegible] water closet **european** [illegible] with black solid [illegible] brass hinges, rubber [illegible] P.V.C flushing cistern [illegible] with fittings, C.I / M.S [illegible] flush pipe fittings [illegible] with arrangements with [illegible] mosquito proof coupling of [illegible] painting of fittings and [illegible] making good the wall and [illegible] including cost of [illegible] complete as per specifications. [illegible] page no 79 item [illegible]	Each	4,956.00	396.48	5,352.48	1	5352.48
Providing and fixing white [illegible] **wash basin** size [illegible] 15mm C.P brass [illegible] brackets ,32mm C.P [illegible] pattern, painting of [illegible] cutting and making good [illegible] wherever required , including [illegible] labour complete as per [illegible] Specification No. KBS 11. page [illegible]	Unit	3,149.00	251.92	3,400.92	1	3400.92
Providing and fixing [illegible] rectangular shape mirror with [illegible] of approved make and [illegible] hard board backing [illegible] materials, labour complete as [illegible] page no 84 item No.12.41	Unit	1,136.00	90.88	1,226.88	2	2453.76
Providing and fixing C.P brass [illegible] height, 20mm dia with C.P [illegible] wooden cleats with C.P brass [illegible] of materials, labour [illegible] specifications.	Unit	739	59.12	798.12	2	1596.24
[illegible] cms to 15.00 cms dia [illegible]	Each	150.00	12.00	162.00	2	324

wall, ceiling and floor kgs/sqcm working fittings, wall clips etc., and wall, ceiling and floor for including cost of all charges, HOM of complete as per flush water pipe.						
	m	434	34.72	468.72	17	7968.24
	m	853	68.24	921.24	15	13818.6
				TOTAL		**34914.24**
inspection chamber depth, (clear inside pipeline, using table bricks of class cement mortar 1:5, C.I cover 455x610mm internal weight of cover with frame to weight of cover 23kg R.C.C. top slab with 20mm and granite metal, foundation concrete M granite metal inside with cement mortar 1:3, cost of cement on complete as per cost of materials, complete as per No. KBS depth (clear inside pipeline, using table bricks of class cement mortar 1:5, C.I cover 610x610mm. (P.No. 75/	Nos.	8490	679.2	9169.2	1	9169.2
and placing on water storage tanks with suitable locking arrangements, of suitable diameter for inlet, type, including cost of all charges, HOM of complete as per (One 1000 Litre capacity) as per No. KBS 13.22	Each	6828	546.24	7,374.24	1	7374.24
testing and approved make **submersible** construction suitable for The quoted rate shall also providing necessary safety devices over load relays auto with necessary cables etc., complete as per 440V,50Hz, three						

water from UG Sump to						
= 1No set)	Set			50000	1	50000
Providing and fixing in ... of approved quality ... including cost of all ... of equipments with ... complete as per ... KBS 13.2.2/	Each	173	13.84	186.84	3	560.52
Providing and fixing in ... of approved quality ... including cost of all ... of equipments with ... complete as per ... KBS 13.2.2/	Each	141	11.28	152.28	2	304.56
Providing and fixing in ... with C.I wheel of ... 20mm nominal ... of all materials, labour and ... with all leads complete as ... no. KBS ... no 13.33	Each	336	26.88	362.88	2	725.76
... Chlorinated Poly Venyl ... (CPVC) ... conforming to IS ... for hot and cold ... including all CPVC plain and ... fixing the pipe ... spacing. This includes ... and fittings with one step ... & the cost of cutting ... good the same including ... complete. (Concealed work ... and good the walls ... 13.86.2 and 13.86.3						
	m	235	18.80	253.80	9	2284.2
	m	293	23.44	316.44	9.8	3101.112
				TOTAL:		**73519.592**
						34914.24
						73519.592
					GRAND TOTAL:	**108433.832**
					GST Charges (12% of estimated cost)	**13012.0598**
					Grand Total	**121445.892**

... inspected and found to be necessary

... under B.B.M.P

... made in the estimate are necessary and minimum

... of C.S.R of 2018-2019, PWD Electrical 2019-20,PRED 2012-13, SE-RDED approved Rate and Issused Rates.

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

CONSTRUCTION OF SAMUDAYA BHAVANA AT MARIYANNAPALYA IN WARD No.07

				Estimation Cost.Rs	**78354.098**
	Description of Works	**Unit**	**Qty**	**SR Rate**	**Amount, Rs.Ps**
	PART A : INTERNAL WIRING SYSTEM				
	Point wiring using copper wire without switch (Class A material). Supplying and wiring adopting loop system in existing PVC conduit/casing capping using 2X1.5Sqmm(phase &Netural) &1X1.0 Sqmm (Earth Wire) FRLSmultistrand PVC insulated 2x1.5sqmm copper confirming to the GTP With a 6amps flusg type SP control switch shall be fixed on the existing plastic sheet / gand box .the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet.				
	Short point upto 3m	Point	8	200.00	**1600**
	Medium point above 3m - 6m	Point	8	275.00	**2200**
	Concealed Conduit System - Supplying heavy gague PVC conduit pipe 20/25/32 mm dia 2mm thick confirming to IS 2509 with suitable size bends metal/pvc junction boxes, adhesive paste etc, and running before concreting and slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fisg wire wherever necessary				
	25mm dia, 2mm thick	Mtr	48.8	83.00	**4050.4**
	Groove cutting : Supplying heavy gauge conduit PVC 25/32mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.				
	20/25mm dia, 2mm thick	Mtr	11.8	40.00	**472**
	25mm dia, 2mm thick	Mtr	15.6	53.00	**826.8**
	32mm dia, 2mm thick	Mtr	11.8	83.00	**979.4**
	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be firmil flush mounted after due groove cutting in wall /stone/C.C wall				
	1--2 Way	Each	5	95.00	**475**
	4--5 Way	Each	5	105.00	**525**

SR book item no.	Description of Works	Unit	Qty	SR Rate	Amount, Rs.Ps
Item 3.1	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654 .				
Item 3.1.2	6AMP 3/5 and Switch	Each	6	132.00	**792**
Item 3.2	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flusg mounted wooden box and wiring as per IS 1293	Each	5	171.00	**855**
Item 3.3	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854				
3.3.4	16Amps Combined switch and socket with indication	No	2	194.00	**388**
3.3.5	Electronic stepped regulator.	No	4	211.00	**844**
	Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements.				
Item 2.5.3	2.5sqmm	Mtr	41.25	32.00	**1320**
Item 2.5.4	4sqmm	Mtr	83.1	45.00	**3739.5**
Item 1.12	Supplying and fixing Metal Fan Box with Round Hook	Nos	4	85.00	**340**
	DISTRIBUTION BOARDS				
Item 5.18	Supplying and fixing of Group A, regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB'S single phase/ 3 phase / single door with powder coated painting made out of SWG MS enclosute				
Item 5.18.4	12 way SP & N	Nos	2	1210	**2420**
Item 6.16	Supply and fixing miniature circuit breakers on the existing MCB distribution boards using necessary fixing meterials and "C" type curve, Indiator ON/OFF energy cross -3 with as required confirming to IEC 60898				
Item 6.16.3	5-32 AMPS DP	Nos	2	909	**1818**
	TOTAL				**23645.1**

	Description of Works	Unit	Qty	SR Rate	Amount, Rs.Ps
	PART B : EARTHING				
Item 7.1	Supplying, fixing and wiring earth electrode for grounding conduits , I.C. cutouts and others equipments on the meter board using 40mm dia 2.90mm long buried in a pit.. the pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit ect, is to be established through GI wire of size as ISI specification 7.3.3 of IS 732 using 12mm dia bolt, nut, washers and check nuts ect... the pipe shall have 16 through holes of 122mm dia,	No	1	2999.70	**2999.7**
	Supplying and running of GI/ copper strips for grounding connections, using necessary fixing materials as required.				
Item 7.3.1	25 x 3mm G.I strip	Mtr	7.6	75.00	**570**
	TOTAL				**3569.7**
	PART D : LIGHT FIXTURES				
Item 12.4.2	Suppiying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fitting	Nos	15	300.00	**4500**
Item 7.3	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles. single phase AC supply conforming to ISS-374-1979 and with double ball bearing system				
Item 7.3.1	48" sweep (1200mm)	Each	4	2090.00	**8360**
Item 9.1	Supply Exhaust fan if 1440 RPM of (12") size with dracket blades complete for light duty suitable to -oerate on 230V 50Hz, supply complete	Each	4	1200.00	**4800**
	TOTAL				**17660**
	PART-E-Main LT Panel				
5.31	Supplying and fixing Trivector meter suitable for operation LT operation and CT operated meter in polycarbonate body in class 0.5accuracy as per IS 14697 and completely wired	Each	2	3650.00	**7300**
5.38	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C (48/6.36)	Each	1	430.00	**430**
	TOTAL				**7730**
	PART-F-LT UG CABLES				
6.4	Supplying of 1.1 KV LT UG cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strip (except 2Cx 10Sq.mm wire armoured) Confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheated armoured cable with specified IS-1554 Part-1:1998 & confirming to the attached GTP of GROUP-A. (62/7.4)				
6.4.13	3.5 core 240 sqmm	Mtr	6.1	1130.00	**6893**
6.4.5	3.5 core 25 sqmm	Mtr	6.1	180.00	**1098**

SR book item no.	Description of Works	Unit	Qty	SR Rate	Amount, Rs.Ps
6.5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct. (68/7.8)				
6.5.2	25 sqmm to 75 sqmm	Mtr	6.1	15.50	**94.55**
6.5.4	300 sqmm 400 Sqmm	Mtr	6.1	32.00	**195.2**
6.17	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.(64/7.21)				
6.17.7	25 sqmm Long Barrel	Each	2	20.59	**41.18**
6.17.16	300 sqmm Long Barrel	Each	2	338.00	**676**
6.11	Supplying and fiixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) (69/7.14)				
6.11.5	50mm dia	Each	2	255.00	**510**
6.11.7	75mm dia	Each	2	496.00	**992**
7.9	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating. (68/7.9)				
7.9.2	In soil (hard)	Mtr	5	106.00	**530**
7.12	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. (68/7.12)				
7.12.1	40mm	Mtr	2	345.00	**690**
7.12.3	65mm	Mtr	2	585.00	**1170**
				TOTAL	**12889.93**
				GRAND TOTAL	**65494.73**
				ADD 12% GST	**7859.3676**
				Bescom Charges	**5000**
				Sub Total	**78354.0976**

CERTIFICATE

[illegible] has been inspected and found to be necessary

[illegible] comes under B.B.M.P

[illegible] made in the estimate are necessary and minimum.

[illegible] is based on C.S.R of 2018-2019, PWD Electrical 2019-20,PRED 2012-13, SE-RDED approved Rate and Issused Rates.

[illegible] Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP